

IN THE CLAIMS

Please amend the claims as shown in the following listing of claims:

1. (Canceled).
2. (Canceled).
3. (Previously Presented) A vehicle front-view monitoring system for taking fail-safe measures comprising:
 - a camera device for taking an image of a view in front;
 - a calculator for calculating luminance data on the image; and
 - a determination section for determining whether there is a fail occurring on the monitoring system based on the luminance data, the fail-safe measures being taken if the fail is occurring,
wherein the luminance data indicate luminance-distribution characteristic values indicating a horizontal luminance-distribution on the image, and
wherein the determination section determines the fail based on a parameter obtained by the calculator and normalizes the luminance-distribution characteristic values by a shutter speed for the camera device.
4. (Currently Amended) The vehicle front-view monitoring system according to claim [[13]] 3, wherein the luminance data indicate luminance-distribution characteristic values that include the maximum value of addition of luminance on the image.

5. (Currently Amended) The vehicle front-view monitoring system according to claim [[13]] 3, wherein the luminance data indicate luminance-distribution characteristic values that include a luminance-addition variance on the image.
6. (Currently Amended) The vehicle front-view monitoring system according to claim [[13]] 3, wherein the luminance data include data related to luminance edges in a predetermined monitoring area on the image.
7. (Previously Presented) The vehicle front-view monitoring system according to claim 6, wherein the number of related to luminance edges data is the number of luminance edges.
8. (Previously Presented) The vehicle front-view monitoring system according to claim 6, wherein the number of data related to luminance edges is the number of distance data obtain by a pair of cameras of the camera device.
9. (Original) The vehicle front-view monitoring system according to claim 6, wherein the monitoring area is set on the upper section of the image where a vehicle running ahead is displayed.
10. (Previously Presented) A vehicle front-view monitoring system for taking fail-safe measures comprising:
 - a camera device for taking an image of a view in front;
 - a calculator for calculating luminance data on the image; and

a determination section for determining whether there is a fail occurring on the monitoring system based on the luminance data, the fail-safe measures being taken if the fail is occurring,

wherein the calculator calculates a luminance center as the luminance data, the luminance center corresponding to a horizontal position on the image at which luminance are converged, and the determination section determines the fail by evaluating the horizontal luminance distribution on the image based on the luminance center.

11. (Previously Presented) The vehicle front-view monitoring system according to claim 10, wherein the calculator calculates a luminance moment indicating the horizontal luminance distribution based on the luminance center and the determination section determines the fail based on the luminance moment.

12. (Original) The vehicle front-view monitoring system according to claim 3, wherein the calculator further calculates the number of data as another parameter related to luminance edges in a predetermined monitoring area on the image, the determination section determining the fail based on the parameters.

13. (Currently Amended) A vehicle front-view monitoring system, comprising:
a camera device for taking an image of a view in front of the vehicle;
an image recognition device which receives image data from said camera device;
a vehicle state alteration device which is in communication with said image recognition device and alters a vehicle condition based upon image data criteria;

a determination section for determining whether there is a monitoring system failure based on a luminance state condition; and

a fail safe implementation device which places said monitoring system in a fail safe mode based on the determination section determining a luminance based monitoring system failure has occurred, which fail safe mode precludes an activity in said vehicle state alteration device; and

requirement means for determining whether one or more fail safe interruption criteria is present, which requirement means is associated with one or more of the following criteria:

- a) that an upper luminance saturation factor LR1 is larger than a lower luminance saturation factor LR2;
- b) that a number of luminance edges EN of an area of the vehicle in front is smaller than a reference number;
- c) that a number of the calculation of the distance data is smaller than a reference number;
- d) that a luminance-distribution characteristics parameter normalized by a shutter speed VAR' is greater than a reference value;
- e) that a maximum addition of luminance normalized by a shutter speed Amax' is larger than a reference value.
- f) that a normalized luminance moment LM' is smaller than center corresponding to a horizontal position on the image which luminance are converged is smaller than a reference value; and

said requirement means determining that fail safe mode activation is appropriate only if all of criteria a to f are satisfied.

14. (Previously Presented) The monitoring system of claim 13, further comprising a calculator for calculating luminance data on the image; wherein said determination section for determining whether there is a monitoring system failure occurring on the monitoring system based on a luminance state condition determines whether there is a monitoring system failure based on luminance calculations derived from said calculator.
15. (Previously Presented) The monitoring system of claim 13 wherein said luminance state condition is a luminance condition deemed to present a potential for a lowered monitoring accuracy condition, and wherein said fail safe implementation device precludes any activity in said vehicle state alteration device until a restatement condition is established.
16. (Currently Amended) The monitoring system of claim [[13]] 30 wherein said vehicle condition to be altered is a warning system and said fail-safe implementation device fail-safe measures prevents said warning system from activating.
17. (Previously Presented) The monitoring system of claim 13 wherein said fail safe implementation device prevents the vehicle state alteration device from activating a vehicle control change in said vehicle.

18. (Currently Amended) The monitoring system of claim [[17]] 30 wherein the vehicle control change of said vehicle state alteration device, which is precluded from activating in the fail safe mode, is a vehicle slow down control change.

19. (Currently Amended) The monitoring system of claim [[13]] 30 further comprising requirement means for determining whether one or more of the fail safe interruption criteria is present, which requirement means is associated with one or more of the following criteria;

- a) that an upper luminance saturation factor LR1 is larger than a lower luminance saturation factor LR2;
- b) that a number of luminance edges EN of an area of the vehicle in front is smaller than a reference number;
- c) that a number of the calculation of the distance data is smaller than a reference number;
- d) that a luminance-distribution characteristics parameter normalized by a shutter speed VAR' is greater than a reference value;
- e) that a maximum addition of luminance normalized by a shutter speed Amax' is larger than a reference value.
- f) that a normalized luminance moment LM' is smaller than center corresponding to a horizontal position on the image which luminance are converged is smaller than a reference value.

20. (Previously Presented) The monitoring system of claim 19 wherein the requirement means determines that a fail safe mode interruption is appropriate if one or more of criteria a to f is not satisfied.
21. (Previously Presented) The monitoring system of claim 19 wherein the requirement means determines that a fail safe mode interruption is appropriate if just one of criteria a to f is not satisfied.
22. (Previously Presented) The monitoring system of claim 19 wherein the requirement means determines that fail safe mode activation is appropriate if one or more of criteria a to f is satisfied.
23. (Previously Presented) The monitoring system of claim 19 wherein the requirement means determines that fail safe mode activation is appropriate if two or more of criteria a to f are satisfied.
24. (Previously Presented) The monitoring system of claim 19 wherein the requirement means determines that fail safe mode activation is appropriate only if all of criteria a to f are satisfied.
25. (Currently Amended) The monitoring system of claim [[13]] 30 wherein said ~~determining means~~ determination section prevents said ~~fail-safe mode~~ fail-safe measures

from activating if a vehicle is recognized ahead or a distance to a vehicle is detected based on said image recognition device.

26. (Currently Amended) The monitoring system of claim [[13]] 30 wherein said ~~determining means~~ determination section includes means for preventing said ~~fail-safe mode~~ fail-safe measures from activating based on camera shutter speed.

27. (Previously Presented) The monitoring system of claim 13, wherein said determination section for determining whether there is a monitoring system failure occurring on the monitoring system based on a luminance state condition determines whether there is a luminance state condition failure based on luminance calculations, and said fail safe implementation device prevents said vehicle state alteration device from activating an image recognition based vehicle control change in said vehicle.

28. (Previously Presented) The monitoring system of claim 13, wherein said determination section for determining whether there is a monitoring system failure occurring on the monitoring system based on a luminance state condition determines whether there is a monitoring system failure based on optical irregularities occurring on monitored images, and said fail safe implementation device prevents said vehicle state alteration device from activating an image recognition based vehicle control change in said vehicle.

29. (Currently Amended) The monitoring system of claim [[13]] 10, wherein said ~~fail-safe implementation device~~ fail-safe measures precludes activation of an image recognition based

vehicle control change until conditions are sensed by said monitoring system that a luminance state is acceptable for proper monitoring system functioning.

30. (Previously Presented) The monitoring system of claim 10, further comprising:
 - an image recognition device which receives image data from said camera device;
 - and
 - a vehicle state alteration device which is in communication with said image recognition device and alters a vehicle condition based on image data criteria;
 - wherein said fail-safe measures prevents the vehicle state alteration device from activating an image recognition based vehicle control change in said vehicle.